**Shashank Reddy Boyapally**

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**EDUCATION and ACADEMIC QUALIFICATIONS**

**University of Florida**, Gainesville, Florida, USA. **Aug '22 – Dec '23**

Master of Science, Computer Science. **CGPA: 4.0/4.0**

**Jawaharlal Nehru Technological University College of Engineering Hyderabad**, Hyderabad, India. **Aug '18 – Jun '22**

Bachelor of Technology, Computer Science & Engineering, **CGPA**: **8.58/10 or 3.9/4**

**TECHNICAL SKILLS**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Web Dev & DB:** | React Native | ReactJS | Spring Boot | Django | Flask | MySQL | MongoDB | Firebase |
| **Cloud:** | AWS | Kafka | Kubernetes | Docker | Terraform | Jenkins | OpenShift | Cron Jobs |
| **ML & Mobile:** | TensorFlow | OpenCV | CNN | RNN | GenerativeAI | Langchain | Android | Flutter |
| **Tools:** | Git & GitHub | Bamboo | Postman | Octopus | Viper | JIRA | REST API | CI/CD |
| **Languages:** | Python | Java | Golang | TypeScript | Erlang | JavaScript | C&C++ | HTML&CSS |

**WORK EXPERIENCE and INTERNSHIPS**

* **Red Hat Inc.** - OpenShift PerfScale Engineering*,*Raleigh, USA. **Jun '23 – Aug '23**

*Software Engineer Intern*

* Engineered an enhancement to Kube-burner to measure cluster latency metrics up to **precision of 1ms** and captured **P99 and P50** metrics for deployed workloads. Leveraged **client-go library** of **Kubernetes** to measure latencies.
* Developed **GPT** based chatbot, intelligently indexing vast organizational knowledge of up to **1k documents** applying innovative **langchain framework**. Leveraged **Flask** and **Cron** in backend, with **TypeScript ReactJS** in frontend.
* Spearheaded **testing** of critical **go-commons and kube-burner** libraries, pivotal in gauging workloads organization-wide. Remarkably achieved **coverage of 95%.** Seamlessly mocked dependencies using **Go-mock. Ginkgo** and **Go-mega** for tests.
* **Honeywell Technological Solutions** - Aero Division*,*Hyderabad. **Mar '22 – May '22**

*Software Engineer Intern*

* Migrated the Business Management System - manages the Billing and subscription service operated by AMRs from Internet Explorer to Chromium based browsers, completed migration before the deprecation of IE security **single-handedly in 60 days**.
* Utilized **struts framework** along **with JSP**. Saved up **165 hours** per month of work done by AMRs. Boosted efficiency.
* **Honeywell Connected Enterprises –** SRE Division,Bangalore. **Apr '21 – Jun '21**

*Software Engineer Intern*

* Developed an automated testing environment using **Octopus** and **Protractor** in an Agile environment**, conserving time for the task from 60 to 5 mins**. **Boosted efficiency up to 80%.**
* Leveraged **ReactJS** in the Front-end and **Django** for backend along with usage of **Microsoft Azure PostgresDB** and Storage.
* **KPMG International,** WFH. **Apr '20 – May '20**

*Data Analytics Virtual Intern*

* Assessed dataset, performed data transformations, feature engineering, and modelling using various tools as **Tableau and Power BI**. It led to **discovery of 40% more potential customers** based on demographics and transaction history.

**PROJECTS**

* **Finance Tips Bot | *Python, PRAW, beautifulsoup, OpenAI, SMTP, Cron, langchain, AWS.* Jun '23 – Present**
* Develop a real-time bot, scraping data from the subreddit r/wallstreetbets, employed PRAW library for efficient data gathering. Used OpenAI API in integration with langchain to summarize collected data. Leveraged SMTP and Cron for daily feed.
* **Pedestrian Jaywalking Detector | *TensorFlow, OpenCV, mediapipe, YOLOv3, dlib, MySQL, Twilio****.*  **Mar '22 – May '22**
* Identify pedestrians jaywalking at traffic signals exercising mediapipe, identify faces with facial structure and map identified violators with Aadhar Database (Govt. of India Database for citizens). A fine is levied after mapping on the violator. The violator is also notified through email and SMS through Twilio. Achieved up to 91% accuracy on sample size of 86 students.
* **COVID-19 Help Desk | *ReactJS, Material UI and other various libraries, Firebase, React Native.* Mar '21 – May '21**
* Contribute informationabout availability of beds and various medications available in each hospital for citizens, along with filters based on location of user during the severe second wave of COVID-19. Co-ordinated and led the team.

**PUBLICATIONS and PRESENTATIONS**

* **Published a research article** [*Comparative Analysis of Different Pre-trained Deep Learning Models for Brain Tumour*](http://www.gjstx-e.cn/gallery/71-sep2021.pdf) *Detection*.
* **Secured** **Second position** in paper presentation on *Facial Recognition and Attendance System Using dlib and Face Recognition Libraries* in a state-level conference conducted by Computer Society of India, since 1965. (Dec '20).

**CERTIFICATES**

* Google Cloud Program, Dec '20.
* Certificate of Merit, CSI, Nov '20.
* Academic Achievement Award, University of Florida.